Davil Abrahams

(a)  $a^{2^n}$ if  $\rho = 1$ : chose string aaaa x = 1, y = a, z = aaa  $xy^2z$  not in language if  $\rho = 2$ : chose string aaaa x = 1, y = aa, z = aa x = 1, y = aa, z = aa  $xy^2z$  not in language x = a, y = a, z = aa x = a, y = a, z = aa x = a, y = a, z = aa x = a, y = a, z = aa x = a, y = a, z = aaNo matter what p is, you can repeat 1= 2n y= 'n' a certain p # of times so length! = 2n b) Regular: (0[01]\*0) | (1[01]\*1) C) Irregular, seemen p=4: 0000110000 by repeatly the D; at the beginning

2) lo is regular (a(aaa)\*(b/bb)\*aa(aaa)\*) U ((aaa)\* (bbb)\*(aaa)\*) U Scanned by CamScanner

etc.

a20 610 a30, computer chose an dil a30 610 a 30 which is al3, substring

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